

KENWOOD

KDC-C20V

VIDEO CD AUTO CHANGER

INSTRUCTION MANUAL

鐳射唱片自動換片器

使用説明書

컴팩트 디스크 자동 체인저

사용 설명서

KENWOOD CORPORATION

COMPACT
disc
DIGITAL AUDIO

COMPACT
disc
DIGITAL VIDEO


VIDEO CD

Warning / Safety precautions

The marking of products using lasers (Except for some areas)

CLASS 1 LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is using laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

⚠ WARNING

Take the following precautions to prevent fire and avoid personal injury :

- Check that no metal objects (coins, tools, etc.) are left inside the unit to avoid short circuits.
- If you smell or see smoke, turn the power off immediately and consult your Kenwood dealer.

⚠ CAUTION

Take the following precautions to keep the unit in proper working order.

- Do not open the top or bottom cover.
- Do not install the unit in places it is exposed to direct sunlight, high heat or humidity, water may splash over it, or dust exists.
- Do not install the unit at a dusty place. If the unit is installed at a dusty place, dust accumulates inside the unit and unit may be damaged.
- When drilling a hole in the car to fix the brackets, make sure not to damage the fuel tank, brake tube, wiring harnesses, etc. on the other side.
- If the unit is installed near speakers, the speakers vibration may causes a sound skip. Install the unit as far away as possible from the speakers.

NOTE

- If you have difficulty in installing this unit in your vehicle, contact your Kenwood dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your Kenwood dealer.

IMPORTANT INFORMATION

- This unit is NOT designed to be connected directly to control units that are manufactured and sold before 1994. If used with such units, an optional CA-SD200 (sold separately) must be used.

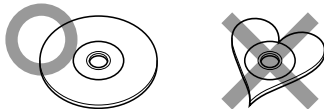
FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THIS UNIT AND CONTROL UNIT.


- The disc name preset function can register names of up to 100 discs using up to 12 characters for each disc name. The availability of this function as well as the number of discs which can be registered using

this function and the number of usable characters may be variable depending on the control unit in use.

Do Not Use Special Shape CDs

- Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.



- Be sure to use CDs with disc mark  only for this unit.
- CD-Rs and CD-RWs which have not undergone finalization processing cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs recorded on CD-R or CD-RW.

Do Not Use CDs with Sticker on the Labeled Side

- Do not use the CD with the label sticker stuck on it. Using such a CD may cause the CD to be deformed and the sticker to peel off, resulting in malfunction of the unit.

Cleaning the unit

- If the front panel is dirty, wipe it clean with a silicon cloth or soft dry cloth with the power off.

⚠ CAUTION

Do not use hard cloths or paint thinner, alcohol, or other volatile solvents. These may damage external surfaces or remove indicator characters.

Lens fogging

- In cold climates, there may be a period after you turn on your vehicle's heater when the lens that guides the laser beam used in your CD player fogs up. If this happens, you cannot play compact discs. Take out discs and the fogging will disappear. If it does not return to normal after several hours, contact your Kenwood dealer.

Heat protection

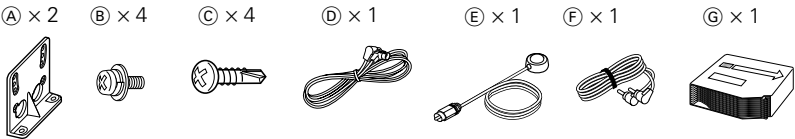
- In warm climates, when vehicles are left standing in direct sunlight with the windows closed, the temperature inside can rise above 60°C. The unit's protection circuits will then display the message "HOLD" and prevent the player from operating. Just open the windows or turn on the air conditioning. As soon as the "HOLD" message disappears, the player will operate normally.

Stains, scratches, or warping can cause skipping, malfunction, or low sound quality. Take the following precautions to avoid damage to the compact discs.

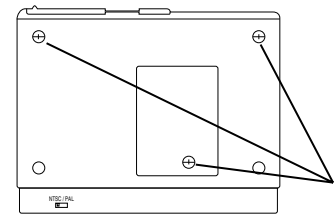
- Avoid touching the recorded side (the side without the titles on) when you hold a compact disc.
- The reflective film on a CD-R or a CD-RW is more fragile than that on an ordinary music CD, and may peel off if scratched. Fingerprints on a CD-R or CD-RW are also more likely to cause skipping when the disc is played. For these reasons, handle the disc very carefully. Detailed handling instructions will appear on the CD-R or CD-RW package: read this information carefully before using the disc.
- Do not stick paper tape, etc. on either stick of the disc.
- Do not store discs where they will be exposed to direct sunlight (such as on the seat and dashboard) or high heat.
A CD-R or CD-RW is more susceptible than a music CD to damage from high temperatures and humidity, and in some cases, may become unusable if left in the car for long periods of time.
- If you do not use your unit for an extended time, remove the discs from the unit and put them in their cases. Do not leave them lying around without cases, piled up, or leaning on a wall and so on.
- If you attach an adapter to an 8 cm (3") compact disc and load it into this unit, the adapter may be detached from the disc, causing damage to the unit. Do not use 8 cm (3") compact discs.

Installation

■ Accessories



■ Removing the transportation screws



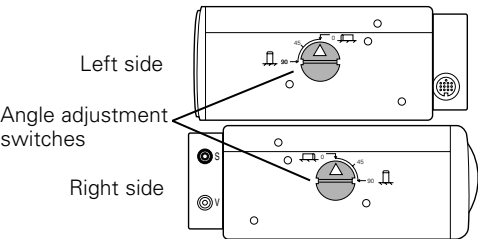
Remove all 3 transportation screws for protecting the internal mechanism before you start to install the unit.

NOTE

After removing the transport screw, retain it carefully and attach it again before transporting the unit again.

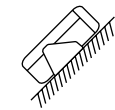
Transportation screws

■ Angle adjustment switches



- The angle adjustment switches on the both side of the unit are to be set according to the angle of installation of the CD auto changer. Set both of the two switches to the same position. If the switches are not set properly, sound skip or other malfunction may occur.
- Set the angle adjustment switches with a coin or other flat object.
- Change the switch step by step by detaching and reusing the obdect at the end of each step.

Installation angle	0°~5°	40°~50°	85°~90°
Angle adjustment switch position			



It is not possible to install at an angle of 40°~50° if only Ⓐ is used.

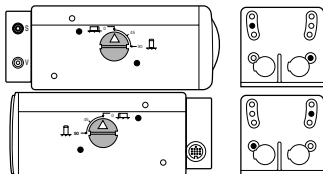
Installation

Use the holes marked ● to install the unit.

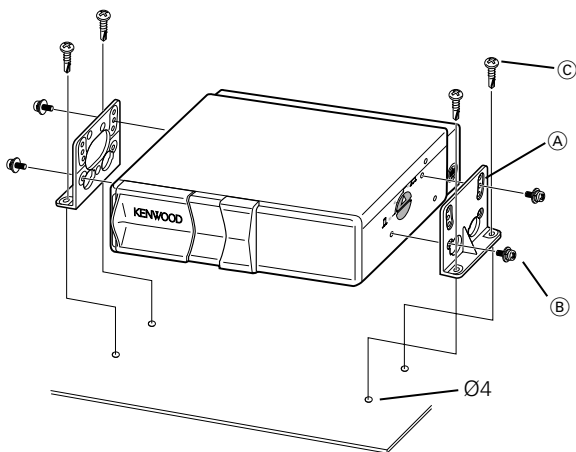
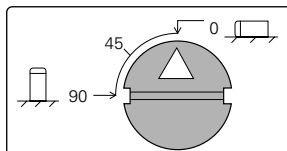
CAUTION

Do not tighten the screw ⑥ too securely at the time of installation, but tighten it securely after having fixed the bracket ④.

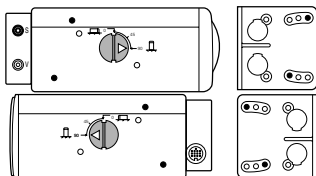
Horizontal installation



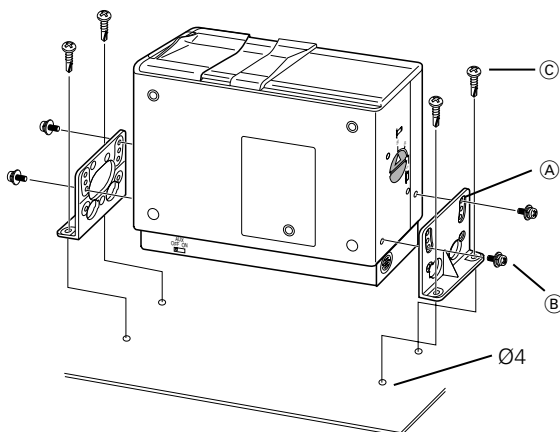
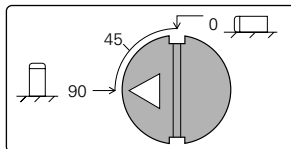
Angle adjustment switch position



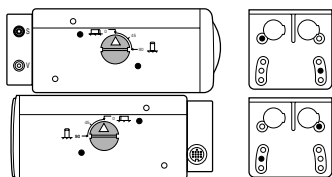
■ Vertical installation



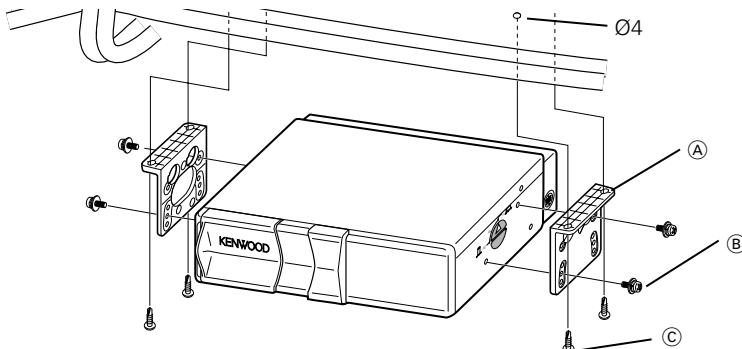
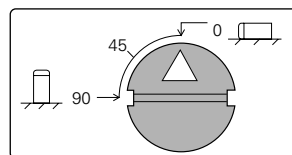
Angle adjustment switch position

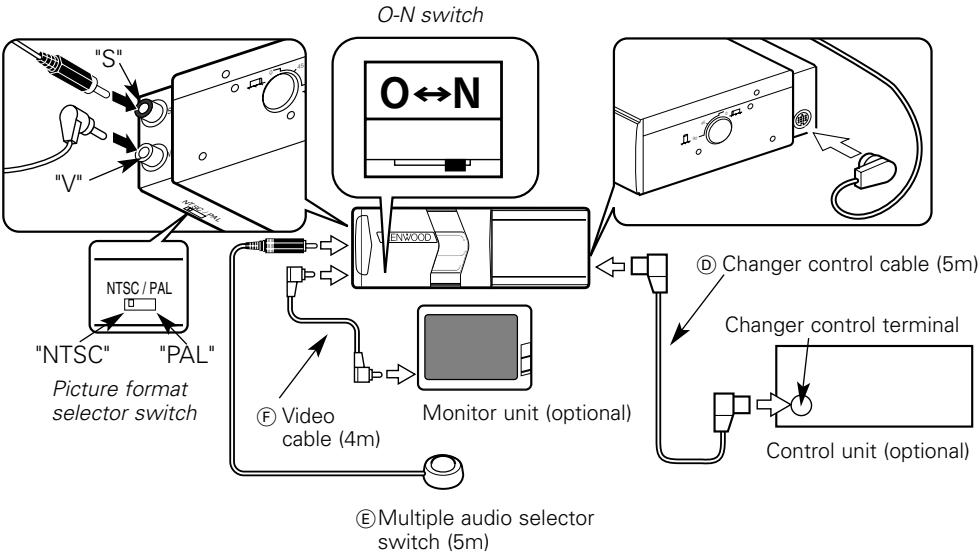


■ In case of hanging in the trunk



Angle adjustment switch position





CAUTION

- Do not connect the changer control cable while the control unit is turned ON.
- Be sure to press the reset button after installation.
- Do not install an antenna of radio equipment or distribute the antenna cable near the changer output cable, for this could cause malfunction with this unit.

Setting the O-N switch

Set the O-N switch (lying to the right of the EJECT key) depending on the unit connected, as follows:

Control unit	CD text-capable		Not CD text-capable		—
Changer switching unit	None	KCA-S210A	None	KCA-S210A	KCA-S200
O-N switch setting	N	N	O	O	O

Consult the instruction manual for your control unit to check whether or not it is CD text capable. That information can be found on the page for External Disc Control in the section concerning switching to "N."

The picture format selector switch must be set to the format of the connected monitor.

Set the KDC-C20V's picture format selector switch to "PAL" when a PAL monitor is connected, to "NTSC" when an NTSC monitor is connected. Use video CDs of the same format as the format to which the KDC-C20V is set.

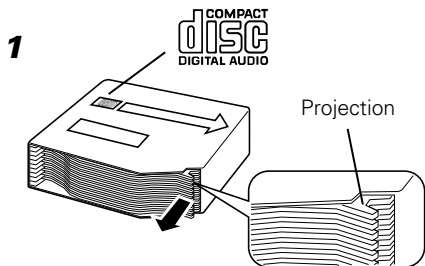
CAUTION

- No picture will appear if the KDC-C20V's video output format is not the same as the monitor's picture format.
- The top and bottom of the picture may be cut off or a black stripe may appear if the video CD's format is different from the KDC-C20V's video output format.

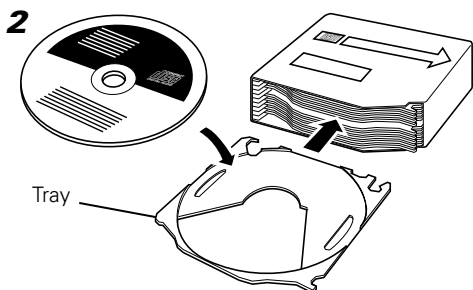
Multiple audio selector switch

Connect the included multiple audio selector switch to the "S" (black) jack on the left side of the KDC-C20V.

Loading compact discs



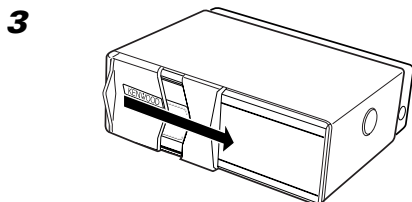
Make sure the disc magazine is the right way up with the "disc" logo on the top. Pull the tray out by the projection.



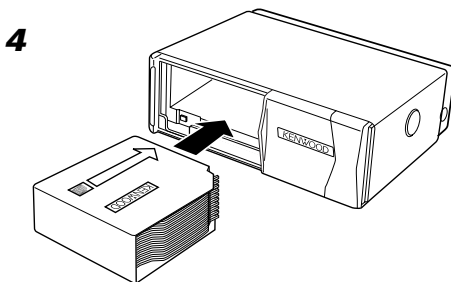
Place the disc on the tray with the label facing upwards. Insert the tray into the disc magazine until it locks. Check that the discs and trays are inserted properly. The discs are numbered from the bottom from 1 to 10.

⚠CAUTION

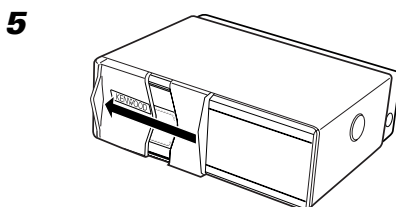
- Take care to insert trays into the correct grooves in the disc magazine and to insert discs properly into the tray grooves. Otherwise malfunction may occur or the disc may be damaged.
- Insert all trays even when some of them do not carry discs. Otherwise malfunction or operation failure may occur.
- 8-cm discs cannot be used. If an 8-cm disc adapter is used, the disc cannot be ejected.



Open the CD changer door.



Insert the magazine into the CD changer until it clicks.

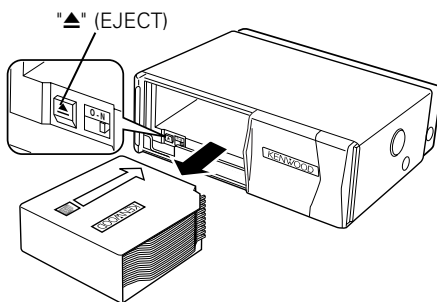


Close the CD changer door.

NOTE

Use the CD changer with its door closed to prevent the entry of dust into the changer.

6 Magazine ejection



Open the CD changer door, and press the "▲"(EJECT) button.

NOTE

Be sure to open the door completely before pressing the "▲"(EJECT) button. If the door is not completely open, the magazine may hit the door and cause damage or malfunction.

Operation

Operate the KDC-C20V using the connected control unit.

Operation is the same for the CD changer. (For details, refer to the control unit's disc control/CD changer mode.)

NOTE

- With some video CD's, the track number may differ from the jacket display, or may differ from the track number display on the menu screen.
- Depending on the disc, unwanted noise may be present in the sound.

CAUTION

- Your CD player can play version 2.0 discs. However, the PBC (Play Back Control) function will not operate.
- Depending on the recording status, it may prove impossible to play certain VCDs

Switching the multiple audio mode

The audio output mode switches in the following order when the included multiple audio selector switch is pressed while playing CDs:

► L + R ► L + L ► R + R



NOTE

The audio output mode switches back to "L + R" when the control unit's source mode is switched or the power is turned off.

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc changer mode cannot be selected.	No cable has been connected to the disc changer input terminal on the unit.	Connect the cable to the disc changer input terminal on the unit.
The specified disc does not play, but another one plays instead.	<ul style="list-style-type: none"> • The specified CD is very dirty. • The CD is upside-down. • The disc is loaded in a different slot from that specified. • The disc is severely scratched. 	<ul style="list-style-type: none"> • Clean the CD. • Load the CD with the labelled side up. • Eject the disc magazine and check the number for the specified disc. • Try another disc instead.
The picture and sound skips.	<ul style="list-style-type: none"> • Something is touching the disc changer. • The CD is scratched or dirty. • The unit is mounted at a slant. • Changer unit is mounted in an unstable place. • The angle adjustment switches are set improperly. 	<ul style="list-style-type: none"> • Remove whatever is touching it. • If skipping happens at the same place when the car is stopped, something is wrong with the CD. Clean the CD. • Mount the unit so that is level. • Mount the unit in a stable place. • Set the angle adjustment switches to the correct positions.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the Control unit .
The specified track does not play.	Random play or magazine random play has been selected.	Turn off the random play or magazine random play function.
The disc changer mode cannot be selected.	The O-N selection switch of the disc changer is not set properly.	Set the O-N selection switch to "O" position.

When removing the CD changer, be sure to first eject a magazine then unplug the changer cord. Do not forget to attach the transportation screws before transporting the CD changer. The CD changer may be damaged during transport if a magazine or CD is left inside it or the transportation screws are not attached.

Specifications

Specifications subject to change without notice.

Laser diode	GaAlAs ($\lambda=780\text{ nm}$)
Digital Filter	8 Time Over Sampling
D/A Converter	3 Level $\Delta\Sigma$
Spindle speed	500 ~ 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response ($\pm 1\text{ dB}$)	5 Hz ~ 20 kHz
Total harmonic distortion (1 kHz)	0.005 %
Signal to Noise Ratio	100 dB
Dynamic range	95 dB
Channel separation	90 dB
Video CD Format	Version 1.1
Video output Color system	NTSC / PAL
Video output level	1 Vp-p / 75 Ω
Operating voltage	14.4 V (11 ~ 16 V allowable)
Current consumption	0.5 A at Rated power
Dimensions (W \times H \times D)	250 \times 80 \times 202 mm (9-13/16 \times 3-1/8 \times 7-15/16 in.)
Weight	2.3 kg (5.1 LBs)